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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,576	09/25/2004	Chao-Hung Hsu	13549-US-PA	5575
31561 7590 12/21/2007 JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100 TAIWAN			EXAMINER SHAPIRO, LEONID	
			ART UNIT 2629	PAPER NUMBER
			NOTIFICATION DATE 12/21/2007	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USA@JCIPGROUP.COM.TW

<b>Office Action Summary</b>	<b>Application No.</b> 10/711,576	<b>Applicant(s)</b> HSU ET AL.	
	<b>Examiner</b> Leonid Shapiro	<b>Art Unit</b> 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 25 September 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☒ Claim(s) 10-11 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

***Drawings***

1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1- are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahn et al. (7,034,443 B2) in view of Moore (6,771,234 B2).

As to claim 1, Ahn et al. teaches a plasma display panel (col. 1, lines 6-10), comprising:

a rear substrate comprising:

a first substrate (fig. 1, item 18);

a plurality of address electrodes, disposed on the substrate (fig. 1, item 20X, col. 1, lines 45-54);

a rib, disposed on the substrate defining a plurality of discharge spaces, each of the address electrodes disposed in one of the discharge spaces (fig. 1, item 24);

a fluorescent material layer disposed on sidewalls of the rib and portions of the substrate corresponding to the discharge spaces covering the address electrodes (fig. 1, item 26, col. 1, lines 55-60);

a front substrate disposed above the rear substrate, comprising:  
a second substrate ;

a plurality of pairs of electrodes, disposed on the second substrate, wherein the pairs of electrodes are located between the second substrate and the rear substrate; and discharge gas disposed in the discharge spaces (fig. 1, items 10,12Y,13Z, col. 1, lines 23-35).

Ahn et al. does not disclose a plurality of auxiliary address electrodes disposed between the rib and the substrate.

Moore teaches a plurality of auxiliary address electrodes disposed between the rib and the substrate (fig. 5a, item 21, col. 5. lines 44-54).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate teachings of Moore into Ahn et al. system in order to maintain a more uniform addressing field and build redundancy into display (col. 2, lines 57-60 in the Moore reference).

As to claims 2-3, Ahn et al. teaches a dielectric layer and a protection layer, wherein the dielectric layer is disposed on the second substrate covering the pairs of electrodes, and the protection layer is disposed on the dielectric layer (fig. 3, item 44B, col. 2, lines 55-67).

As to claim 4, Ahn et al. teaches the auxiliary address electrodes are grounded (col. 4, lines 1-13).

As to claims 5-6, Moore teaches the rib comprises a plurality of strip patterns parallel to each other (fig. 5a, item 21, col. 5, lines 44-54).

As to claims 7-9, Ahn et al. teaches the pairs of electrodes (Z and Y) parallel to each other, and an extended direction of the pairs of electrodes are different from an extended direction of the address electrodes, wherein the extended direction of the pairs of electrodes is orthogonal to the extended direction of the address electrodes (X) (fig. 1, items 12Z, 12Y, 20X).

### ***Allowable Subject Matter***

3. Claims 10-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Relative to claim 10 the major difference between the teaching of the prior art of record (Ahn et al., Moore) and the instant invention is that resetting the address electrodes and the pairs of electrodes, then electrically grounding the auxiliary address

electrodes; applying a scanning signal to the pairs of electrodes, and inputting an address signal to the address electrodes; and electrically floating the auxiliary address electrodes or coupling the auxiliary address electrodes to a positive voltage terminal when inputting sustain signals to the address electrodes and the pairs of electrodes.

Claim 11 depends on claim 10.

### ***Telephone Inquire***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 571-272-7683. The examiner can normally be reached on 8 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


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LS  
12.10.07



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SUPERVISOR, PATENT EXAMINER  
TECHNICAL STAFF, 12/10/07